

Abstract of the Disclosure

SITE PROFILE BASED CONTROL SYSTEM AND METHOD FOR  
CONTROLLING A WORK IMPLEMENT

An automatic control system for a work machine includes a positioning system, a site model, and a controller. The work machine operates at a work site containing material to be operated on by the work machine. The positioning system determines a relative location of the work machine within the work site and produces a machine position signal. The site model contains data related to a condition of the material. The controller is coupled to the site model, receives the machine position signal and determines a current condition of the material as a function of the position signal and the site model, and controls the work machine as a function of the current condition of the material.